



S. S. PAPADOPULOS & ASSOCIATES, INC.
ENVIRONMENTAL & WATER RESOURCE CONSULTANTS

INVOICE

Client:

US Environmental Protection Agency

RTP Finance Center
 (AA216-01)
 109 TW Alexander Drive
 Durham, NC 27711
 Mr. Daniel Olsson

Invoice #:	24037
Date:	2/10/2022
Project Name:	EPA R5: Hydrogeologic Synthesis & Modeling Support
Project #:	1725

Comments:

GSA Contract #GS-10F-0462M
 Order No.: 68HE0520F0029

Remit Payment To: S. S. Papadopoulos & Associates, Inc.
 1801 Rockville Pike - Suite 220
 Rockville, MD 20852
 Phone: (301) 718-8900

For Services Rendered Through 1/31/2022

001-01-10 - 0001AA-Ottawa Township Flat Glass Superfund Alternative Site

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Sr. Project Hydrogeologist/Sci			
Sorel, Dominique	██	██	\$219.62
Technician/Draftsperson			
Pekoske, Kristen M	██	██	\$77.10
Labor Subtotal	██		\$296.72
Item Subtotal			\$296.72

002-01-10 - 0001AB-Union Carbide Corporation Superfund Site

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Associate			
Spiliotopoulos, Alexandros	██	██	\$4,230.34

Pekoske, Kristen M			\$57.82
Labor Subtotal			\$4,288.17
Item Subtotal			\$4,288.17

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003-01-10 - 0001AC-St. Regis Paper Company Superfund Site**Professional Services**

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Associate			
Spiliotopoulos, Alexandros	██	██	\$1,137.19
Sr. Project Hydrogeologist/Sci			
Sorel, Dominique	██	██	\$402.63
Technician/Draftsperson			
Pekoske, Kristen M	██	██	\$96.38
Labor Subtotal	██		\$1,636.20
Item Subtotal			\$1,636.20

004-00-10 - 0001AD-Pristine Superfund Site**Professional Services**

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Sr. Project Hydrogeologist/Sci			
Karanovic, Marinko	██	██	\$292.82
Perozo, Erica L. DiFilippo	██	██	\$1,464.10
Sorel, Dominique	██	██	\$585.64
Technician/Draftsperson			
Pekoske, Kristen M	██	██	\$77.10
Labor Subtotal	██		\$2,419.66
Item Subtotal			\$2,419.66

005-01-10 - 0001AE-Chemical Recovery Systems Superfund Site**Professional Services**

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Sr. Project Hydrogeologist/Sci			
Perozo, Erica L. DiFilippo	██	██	\$439.23
Sorel, Dominique	██	██	\$5,709.99
Prj. Hydrogeologist/Sci.			
Slawter, Kristen EM	██	██	\$199.58

Technician/Draftsperson

Pekoske, Kristen M

\$96.38

Labor Subtotal

\$6,445.18

Reimbursables

Activity/Vendor

Invoice

Date

Cost

Mult

Amount

In-House Reproduction Costs

ZEXP - Internal Project Charges

01312022

1/31/2022

\$.24

Reimbursable Subtotal

\$.24

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Project 1725 EPA R5: Hydrogeologic Synthesis & Modeling Support

Invoice 24037

Item Subtotal

\$6,445.42

006-01-10 - 0001AF-Lemberger Landfill Superfund Sites

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Sr. Project Hydrogeologist/Sci			
Perozo, Erica L. DiFilippo			\$292.82
Sorel, Dominique			\$512.44
Labor Subtotal			\$805.26
Item Subtotal			\$805.26

008-01-10 - 0001AH-Hedblum Industries Superfund Site

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Sr. Project Hydrogeologist/Sci			
Sorel, Dominique			\$1,464.10
Technician/Draftsperson			
Pekoske, Kristen M			\$96.38
Labor Subtotal			\$1,560.48
Item Subtotal			\$1,560.48

009-00-10 - 0001AI-SE Rockford

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Principal			
Tonkin, Matthew J			\$3,527.32
Sr. Hydrogeologist/Sci.			
Bedekar, Vivek S			\$2,826.08
Mihm, Kathleen			\$1,493.78
Sr. Project Hydrogeologist/Sci			
Sorel, Dominique			\$2,781.79
Prj. Hydrogeologist/Sci.			
Cousins, S. James			\$4,390.65

Karanovic, Zdravka			\$731.78
Shannon, Rachel			\$2,128.80
Sr. Staff Hydrogeologist/Sci.			
O'Connell, Matthew T			\$598.85
Staff Hydrogeologist/Sci.			
Adams, Glen			\$103.54
Technician/Draftsperson			
Pekoske, Kristen M			\$443.32

Project 1725 EPA R5: Hydrogeologic Synthesis & Modeling Support

Invoice 24037

Labor Subtotal

\$19,025.93

Item Subtotal

\$19,025.93

010-00-10 - 0001AJ-Forest Waste Superfund Site

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Principal			
Tonkin, Matthew J			\$1,503.45
Sr. Hydrogeologist/Sci.			
Mihm, Kathleen			\$2,503.10
Sr. Project Hydrogeologist/Sci			
Sorel, Dominique			\$1,390.90
Prj. Hydrogeologist/Sci.			
Cousins, S. James			\$266.10
Karanovic, Zdravka			\$133.05
Shannon, Rachel			\$133.05
Staff Hydrogeologist/Sci.			
Adams, Glen			\$25.88
Nelson, Leah I			\$2,070.80
Technician/Draftsperson			
Pekoske, Kristen M			\$154.20
Labor Subtotal			\$8,180.54
Item Subtotal			\$8,180.54

011-01-10 - 0001AK - Motor Wheel Tire Disposal

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Principal			
Tonkin, Matthew J			\$925.20
Sr. Project Hydrogeologist/Sci			
Sorel, Dominique			\$805.26
Technician/Draftsperson			

Pekoske, Kristen M

\$212.02

Labor Subtotal

\$1,942.49

Reimbursables

Activity/Vendor

Invoice

Date

Cost

Mult

Amount

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ZEXP - Internal Project Charges

01312022

1/31/2022

\$18.00

Reimbursable Subtotal

\$18.00

Item Subtotal

\$1,960.49

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012-02-10 - 0001AL - Verona Wells - OU2**Professional Services**

<u>Employee Type</u>	Hours	Rate	Amount
Associate			
Spiliotopoulos, Alexandros			\$227.44
Technician/Draftsperson			
Pekoske, Kristen M			\$38.55
Labor Subtotal			\$265.99
Item Subtotal			\$265.99

013-01-10 - 0001AM - Hagen Farm**Professional Services**

<u>Employee Type</u>	Hours	Rate	Amount
Principal			
Tonkin, Matthew J			\$115.65
Associate			
Spiliotopoulos, Alexandros			\$3,411.56
Technician/Draftsperson			
Pekoske, Kristen M			\$77.10
Labor Subtotal			\$3,604.31
Item Subtotal			\$3,604.31

014-01-10 - 0001AN - Springfield**Professional Services**

<u>Employee Type</u>	Hours	Rate	Amount
Principal			
Andrews, Charles B			\$231.30
Sr. Project Hydrogeologist/Sci			
Perozo, Erica L. DiFilippo			\$8,784.60
Prj. Hydrogeologist/Sci.			
Cousins, S. James			\$731.78
Shannon, Rachel			\$1,463.55

Staff Hydrogeologist/Sci.				
	Adams, Glen			\$880.09
	Nelson, Leah I			\$6,290.06
Technician/Draftsperson				
	Pekoske, Kristen M			\$674.62
	Rutledge, Devon R			\$655.35
Labor Subtotal				\$19,711.36
Item Subtotal				\$19,711.36

015-00-10 - 0001AO - Bendix

Professional Services

<u>Employee Type</u>	<u>Hours</u>	<u>Rate</u>	<u>Amount</u>
Principal			
Rafferty, Michael T	██	██	\$231.30
Tonkin, Matthew J	██	██	\$3,296.02
Sr. Project Hydrogeologist/Sci			
Karanovic, Marinko	██	██	\$4,758.32
Perozo, Erica L. DiFilippo	██	██	\$6,661.66
Sorel, Dominique	██	██	\$292.82
Prj. Hydrogeologist/Sci.			
Cousins, S. James	██	██	\$266.10
Staff Hydrogeologist/Sci.			
Adams, Glen	██	██	\$517.70
Nelson, Leah I	██	██	\$284.74
Technician/Draftsperson			
Pekoske, Kristen M	██	██	\$250.58
Rutledge, Devon R	██	██	\$269.85
Labor Subtotal	██		\$16,829.11

Outside Consultants

<u>Activity/Vendor</u>	<u>Invoice</u>	<u>Date</u>	<u>Cost</u>	<u>Mult</u>	<u>Amount</u>
ToxStrategies, Inc.	21-12-4776	1/11/2022	██	██	\$4,608.45
Outside Consultants Subtotal					\$4,608.45
Item Subtotal					\$21,437.56
Invoice Amount					\$91,638.09

Project Summary

<u>Budget</u>	<u>Previously Billed</u>	<u>Current Billing</u>	<u>Billed To Date</u>	<u>Budget Remaining</u>
\$2,621,272.47	\$1,253,850.73	\$91,638.09	\$1,345,488.82	\$1,275,783.65



Matthew J. Tonkin

Project Manager

S.S. Papadopoulos & Associates, Inc.

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Office: (309) 616 9060 // Cell: (508) 815-9886



S.S. PAPADOPULOS & ASSOCIATES, INC.
ENVIRONMENTAL & WATER-RESOURCE CONSULTANTS

Site Specific Detail Report

EPA TASK ORDER #: 68HE0520F0029

GSA Contract #GS-10F-0462M

Inv. #24037

Reporting Period: 11 February 2020 through January 31, 2022

subClin	Site/Project Title	Job Number			Current Charges	Cumulative Charges
		SSID	Action Code	OU	Inv. #24037	
0001AA	Ottawa Township Flat Glass Superfund Alternative Site	B5A7	NK	03	\$ 148.36	\$ 66,113.59
0001AA	Ottawa Township Flat Glass Superfund Alternative Site	B5A7	NK	04	\$ 148.36	\$ 66,113.59
0001AB	Union Carbide Corporation Superfund Site	05F4	BF	02	\$ 4,288.17	\$ 69,708.93
0001AC	St. Regis Paper Company Superfund Site	05J2	OM	00	\$ 1,636.20	\$ 75,925.57
0001AD	Pristine Superfund Site	0556	ME	05	\$ 2,419.66	\$ 281,650.57
0001AE	Chemical Recovery Systems Superfund Site	0521	BE	01	\$ 6,445.42	\$ 169,118.19
0001AE	Chemical Recovery Systems Superfund Site	0521	BE	02	\$ -	\$ 1,425.36
0001AF	Lemberger Landfill Superfund Sites	053E	FE	00	\$ 805.26	\$ 1,127.60
0001AG	Lemberger Transport & Recycling Superfund Site	05J4	FE	00	\$ -	\$ 7,562.15
0001AH	Hedblum Industries Superfund Site	05E9	ME	01	\$ 1,560.48	\$ 52,524.35
0001AI	SE Rockford Superfund Site	05DK	OM	02	\$ 19,025.93	\$ 134,821.20
0001AJ	Forest Waste Superfund Site	05D5	BF	02	\$ 8,180.54	\$ 148,242.50
0001AK	Motor Wheel Disposal Superfund Site	05S5	BF	01	\$ 1,960.49	\$ 72,726.51
0001AL	Verona Well Field Superfund Site	0551	TA	01	\$ -	\$ -
0001AL	Verona Well Field Superfund Site	0551	TA	02	\$ 265.99	\$ 30,744.34
0001AM	Hagen Farm Superfund Site	053C	ME	02	\$ 3,604.31	\$ 24,492.46
0001AN	Springfield Township Dump Superfund Site	05A7	OM	01	\$ 19,711.36	\$ 56,782.87
0001AO	Bendix Superfund Site	05AS	TA	01	\$ 21,437.56	\$ 86,409.04
Total					\$ 91,638.09	\$ 1,345,488.82

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1725_summary table thru 013122.xlsx



S.S. PAPADOPULOS & ASSOCIATES, INC.
ENVIRONMENTAL & WATER-RESOURCE CONSULTANTS

EPA Region 5 Support
Description of Services Performed
Period of Performance:
Through January 2022

1725-001-01-10 0001AA-Ottawa Township Flat Glass Superfund Alternative Site

Services were performed by the following SSP&A staff:

Staff	Hours
Dominique Sorel	■
Kristen Pekoske	■

During this period, D. Sorel worked on the monthly report, transmitted documents, and corresponded via email with EPA. K. Pekoske worked on the monthly report.

1725-002-01-10 0001AB-Union Carbide Corporation Superfund Site

Services were performed by the following SSP&A staff:

Staff	Hours
Alexandros Spiliotopoulos	■
Kristen Pekoske	■

During this period, A. Spiliotopoulos joined calls with C. Moynihan, reviewed responses and approvals and reviewed the system performance and the aquifer assessment report. He worked on calculations, reviewed data, worked on the monthly report and joined the monthly internal meeting. K. Pekoske worked on the monthly report and joined the monthly internal meeting.

1725-003-01-10 0001AC-St. Regis Paper Company Superfund Site

Staff	Hours
Alexandros Spiliotopoulos	■
Dominique Sorel	■
Kristen Pekoske	■

During this period, A. Spiliotopoulos joined a status call, reviewed the OU9 MW installation work plan, reviewed updated reports by J. Eidem, and joined the monthly internal call. Finally, he reviewed updated reports by Barr and corresponded with EPA. D. Sorel communicated with A. Spiliotopoulos, reviewed the TM on the installation of two monitoring wells in OU9, and joined the monthly O&M call. K. Pekoske filed documents and worked on the monthly report.

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**1725-004-01-10 0001AD-Pristine Superfund Site Systems**

Staff	Hours
Erica Perozo	████
Dominique Sorel	████
Marinko Karanovic	████
Kristen Pekoske	████

During this period, E. Perozo joined a call with GHD regarding water-level mapping in the Upper Aquifer and worked on the memo regarding the 12/21/2021 call (summary of call with GHD for EPA). She joined a call with EPA, joined a call with M. Tonkin, and evaluated the lake sediment water levels. Finally, she joined a call with EPA regarding the generated maps and joined a call with EPA and PRP evaluating the maps sent by GHD. D. Sorel reviewed a draft Memorandum for E. Perozo and communicated with EPA. M. Karanovic reviewed GHD 4DIM files and joined a call regarding data gaps and the visualization presentation. K. Pekoske worked on the monthly report and joined the internal monthly call.

1725-005-01-10 0001AE-Chemical Recovery Systems Superfund Site

Staff	Hours
Erica Perozo	████
Dominique Sorel	████
Kristen Slawter	████
Kristen Pekoske	████

During this period, E. Perozo reviewed the Split Sampling report. D. Sorel communicated with EPA regarding sampling analysis and scoring and worked on the split sampling report, results and analysis tables, and updates based on requested and obtained data from PRP. She also communicated with Pace Laboratory regarding containers, and worked on the monthly report. K. Slawter revised a table from the Data Validation Appendix. K. Pekoske worked on the monthly report and document filing.

1725-006-01-10 0001AF-Lemberger Landfill Superfund Sites

Staff	Hours
Erica Perozo	████
Dominique Sorel	████

During this period, E. Perozo joined a call with EPA, and joined a second call with EPA, State, and PRP. D. Sorel reviewed the PFAS report, joined calls with E. Perozo, and communicated with the EPA RPM to schedule a meeting. Finally, she joined a call with EPA and PRP, located site data on GEMS, and corresponded internally.

1725-008-01-10 0001AH-Hedblum Industries Superfund Site

Staff	Hours
Dominique Sorel	████
Kristen Pecoske	████

During this period, D. Sorel communicated via email with EPA; prepared for and participated in the bi-weekly call and follow up; joined a conference call addressing questions on the response to November 24 questions on VI investigation, and worked on the monthly report. Finally, she joined a call with PRP, EPA, and State; reviewed project design documents (radius of influence); had a discussion with M. Tonkin; and reviewed meeting minutes. K. Pecoske filed documents and worked on the monthly report.

1725-009-01-10 0001AI-SE Rockford

Staff	Hours
Vivek Bedekar	████
Dominique Sorel	████
Glen Adams	████
Kathleen Mihm	████
Matthew Tonkin	████
S. James Cousins	████
Rachel Shannon	████
Matthew O'Connell	████
Zdravka Karanovic	████
Kristen Pecoske	████

During this period, V. Bedekar discussed the model with M. Tonkin and K. Mihm. He also started to setup a six-layer model, increasing the model layering and assigned properties. He then added pumping and new water-level data to the model and worked on calibration. Finally, he worked on a transport simulation – unit plume analysis. D. Sorel communicated with R. Shannon regarding figures and with Z. Karanovic regarding the database and description of the work completed. She also communicated with K. Mihm, worked on the report and report figures, worked on the CSM, and analyzed concentrations in the Bedrock. G. Adams worked on spatial analysis for R. Shannon, comparing well screen intervals to bedrock data. K. Mihm worked on the report text, joined a conference call, and reviewed background information. She worked on the geology section, reviewed logs, and joined a

reviewed background and Shannon and worked on the geology section, reviewed logs, and joined a conference call regarding the model structure. M. Tonkin reviewed and made edits to the report, integrating parts and writing new sections. He corresponded with D. Sorel, K. Pekoske, and R. Shannon on edits needed, figures, and plume mapping. He conducted an internal review of the report, discussed model setup with V. Bedekar, reviewed revised plumes from R. Shannon and provided comments on combination approach/datasets to use. Additionally, M. Tonkin joined a follow up call with V. Bedekar and K. Mihm to discuss revisions to the groundwater flow model to evaluate pumping effects, completed a final review of the plume maps to be added to report, and continued report revisions. He reviewed new layering concepts, the geologic cross section, and internal correspondence and calls to discuss revisions and expansion of the model for pumping sensitivity. He also reviewed modeling

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results with V. Bedekar and provided input on geology revisions to improve fits and layering adjustments; reviewed the groundwater flow model results, overlapping with various plumes and mapped water level from other reports and analyses; and recommended unit plume simulation. Finally, he reviewed the results of the unit plume simulation, setup a meeting for sensitivity analysis to municipal pumping, and completed his review of model results and unit plume simulation. S.J. Cousins worked on spatial analysis/scripting/figures. R. Shannon worked on plume maps, revisions, report figures and updates, and an analysis of contamination at depth (bedrock vs. alluvium). M. O'Connell worked on fixing the plume mapping table calculations. Z. Karanovic worked on the report. K. Pekoske formatted and reviewed the data analysis report, worked on the monthly report, and produced a reference list for the report.

1725-010-01-10 001AJ-Forest Waste Superfund Site

Staff	Hours
Dominique Sorel	████
Kathleen Mihm	████
Matthew Tonkin	████
Zdravka Karanovic	████
Leah Nelson	████
Rachel Shannon	████
S. James Cousins	████
Glen Adams	████
Kristen Pekoske	████

During this period, D. Sorel initiated review of the annual report and communicated with K. Pekoske, K. Mihm, and M. Tonkin. She also received documents for the annual report review (OMMP), filed documents, and met with K. Mihm, providing background documents. K. Mihm reviewed D. Wilson's comments, tracked vinyl chloride data, and worked on well completion logs. She also fixed ground surface elevations, joined a conference call, and worked on GIS and GWD files. Additionally, K. Mihm reviewed the 2021 Groundwater Monitoring Report, planned next steps, and discussed data with R. Shannon and L. Nelson. M. Tonkin joined an internal call on 3D plume mapping approach and extents of vinyl chloride data, joined internal calls with K. Mihm and D. Sorel, and joined a call with EPA to discuss vinyl chloride data availability and overlapping plume extents, data gaps. He also worked on slides for the RAO discussion with EPA; adding maps, flow logic, and providing it for formatting to distribute to EPA. Finally, M. Tonkin reviewed the annual report, met to discuss the report with D. Sorel and K. Mihm, and attended a status meeting with EPA and RP group. Z. Karanovic updated the

database. L. Nelson worked on residential wells and joined a meeting. She also updated the lithology and chemistry data for the residential wells. R. Shannon updated the database and created queries for the 3D plume mapping. S.J. Cousins worked on spatial analysis. G. Adams converted coordinate systems for K. Mihm. K. Pekoske filed documents, formatted a slide deck on interim RAOs, worked on the monthly report, and joined the internal monthly meeting.

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1725-011-01-10 0001AK - Motor Wheel Tire Disposal

Staff	Hours
Dominique Sorel	████
Matthew Tonkin	████
Kristen Pecoske	████

During this period, D. Sorel worked on the summary of review comments on the semi-annual meeting memo, communicated with M. Tonkin, and corresponded with EPA regarding a document needed for VI review. She also transmitted documents and communicated via email. M. Tonkin worked on comments, slide decks, and a draft technical memo for transmittal to EPA on the semi-annual presentation from December. K. Pecoske reviewed, assembled, and updated the draft summary of review comments on the semi-annual meeting memo. She also worked on the monthly report.

012-02-10 0001AL - Verona Wells - OU2

Staff	Hours
Alexandros Spiliotopoulos	████
Kristen Pecoske	████

During this period, A. Spiliotopoulos joined the monthly internal meeting and worked on 5-year calculations. K. Pecoske worked on the monthly report.

1725-013-01-10 0001AM - Hagen Farm

Staff	Hours
Alexandros Spiliotopoulos	████
Matthew Tonkin	████
Kristen Pecoske	████

During this period, A. Spiliotopoulos updated the trend calculations to include 4th quarter 2022 data, worked on slides for a discussion with S. Sullivan, joined calls with S. Sullivan, and prepared materials for review. He worked on a summary slide deck on data review, system shutdown, and the rebound test; reviewed documents sent by EPA/S. Sullivan; and reviewed EPA correspondence with PRP and response-to-comments by EPA, and PRP's work plan and actions to date. Finally, he joined a call with S. Sullivan on the shutdown workplan and path forward and reviewed the OAPP/WP and related

documents. M. Tonkin communicated with A. Spiliotopoulos on memo reviews, reviewed correspondence, and joined a call to discuss deliverables and monitoring / characterization status. K. Pekoske worked on the monthly report.

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1725-014-01-10 0001AN – Springfield

Staff	Hours
Erica Perozo	████
S. James Cousins	████
Rachel Shannon	████
Glen Adams	████
Leah Nelson	████
Charles Andrews	████
Kristen Pecoske	████
Devon Rutledge	████

During this period, E. Perozo worked on the CSM memo; discussed water-level mapping, cross-sections, and map figures; and worked on the monthly report. She also met with internal staff, read documents, worked on trend analysis, and the CSM figures. Finally, she continued to work on the CSM memo, worked on the CSM presentation, and joined a call with State and EPA. S.J. Cousins worked on spatial data/analysis and the basemap. R. Shannon worked on water-level maps and cross sections. She reviewed and compiled data for 3-point gradients, worked on the CSM, and joined a call with EPA regarding the CSM. G. Adams produced figures for the CSM memo. L. Nelson worked on the CSM memo, worked on cross-section figures in GWD, searched documents for MW-201, and joined internal meetings. Finally, she produced figures for the CSM memo; worked on geology background slides and text; and prepared for and joined a meeting with EPA and EGLE. C. Andrews met with E. Perozo to discuss aspects of the CSM. K. Pecoske worked on data entry, communicated with E. Perozo, and worked on the monthly report. D. Rutledge added a large number of historical documents from Cumulis to Endnote.

1725-015-01-10 0001AO – Bendix

Staff	Hours
Erica Perozo	████
S. James Cousins	████
Leah Nelson	████
Marinko Karanovic	████
Dominique Sorel	████
Glen Adams	████
Michael Rafferty	████

Matthew Tonkin	████
Kristen Pekoske	████
Devon Rutledge	████

During this period, E. Perozo made edits to the CSM memo, reviewed the LTM report, and reviewed the soil vapor data memo. She joined a call with EPA regarding the comments/edits to the MNA memo and joined a call with EPA regarding the hydraulic gradient memo. She also joined a call with M. Tonkin, communicated with M. Karanovic regarding particle tracking, made edits to the hydraulic gradient memo, worked on the monthly report, and reviewed ICIAP and ERC documents. She made



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edits to the water-level mapping and three-point gradient analysis, met with EPA, DOJ, and State presenting the hydraulic gradient memo and MNA memo, made additional edits to the MNA memo and sent the memo to EPA. Finally, E. Perozo joined a call with EPA discussing the hydraulic gradient memo and worked on water-level maps. S.J. Cousins worked on spatial analysis. L. Nelson worked on boring logs. M. Karanovic updated the plume and water-level mapping, prepared the final water-level maps, discussed the draft memo with EPA, and joined a conference call regarding updates on water-level mapping and the hydraulic gradient. D. Sorel communicated with EPA. G. Adams searched for parcel data and reprojected rasters for E. Perozo. He also updated the hydraulic gradient figures. M. Rafferty finished the memo. M. Tonkin worked on final review comments on the LTM/MNA document for E. Perozo and called her to discuss the CSM document and comments on that, to wrap up the document to provide to EPA. He joined a call with EPA to discuss comments on the MNA evaluation memo, reviewed comments in the memo, and discussed a resolution and additional items for addition to the memo. Additionally, he reviewed the LTM, MNA, and related HG memoranda; had a discussion with E. Perozo; attended a call with EPA to discuss interpretations; and reviewed, made edits to, and commented on the slide deck presentations in preparation for status meeting with EPA to provide technical basis for MNA, gradients, remedy, and data gaps. M. Tonkin joined an internal call and reviewed new water-level maps, approach, use of recharge drift, and implications; prepared for and attended a meeting with EPA on the ICIAP, including discussion of reviews completed so far and implications; and reviewed the slide deck presentation, revised MNA memo, and corresponded with E. Perozo in preparation for the next meeting with EPA. Finally, he prepared for and attended a call with EPA to discuss water-level maps, MNA status, data gaps, and revisions to the technical memos. K. Pekoske reviewed and formatted the MNA report comment memo, filed documents, worked on the monthly report, and joined the monthly internal call. D. Rutledge added documents to Endnote.

S.S. PAPADOPULOS & ASSOCIATES, INC.

Summary completed by:

Dominique Sorel
Alternate Project Manager

Summary reviewed by:

Matthew Tonkin
Project Manager

**IN HOUSE REPRODUCTION COSTS
FOR BILLING PERIOD 1
January 01, 2022 - January 31, 2022**

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**ToxStrategies, Inc.**

23501 Cinco Ranch Blvd
Suite B226
Katy, TX 77494

S.S. Papadopoulos & Associates, Inc.

Attn. Michael Rafferty
45 Belden Place,
4th Floor
San Francisco, CA 94104
US

INVOICE

Invoice Date: 01/11/22
Due Date: 02/10/22
Total Amount: \$4,389.00
Number: 21-12-4776
Invoice Period: 12/01/21 - 12/31/21
PO Number:
Terms: 30 days
Project: Bendix Site Vapor Intrusion

INVOICE SUMMARY

Description	Amount
Task 1: Review	\$4,389.00
TOTAL AMOUNT DUE	\$4,389.00

email invoice to Michael Rafferty at: mr Rafferty@sspa.com

ToxStrategies EIN: 26-1634813

Remit To:
ToxStrategies, Inc.
23501 Cinco Ranch Blvd., STE H120-348
Katy, TX 77494

Invoice Questions? Email Questions to info@toxstrategies.com



ToxStrategies, Inc.
23501 Cinco Ranch Blvd
Suite B226
Katy, TX 77494

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INVOICE DETAILS

Source	Date	Task	Description	Hrs / Qnt	Rate	Amount	
Professional fees							
Ann Verwiel	12/15/21	Task 1: Review	Review documents			\$462.00	
Ann Verwiel	12/16/21	Task 1: Review	Review documents			\$231.00	
Ann Verwiel	12/17/21	Task 1: Review	Review files; conf call with client			\$462.00	
Ann Verwiel	12/19/21	Task 1: Review	Identify issues for discussion download new data			\$231.00	
Ann Verwiel	12/20/21	Task 1: Review	review information			\$462.00	
Ann Verwiel	12/21/21	Task 1: Review	talking points			\$231.00	
Ann Verwiel	12/22/21	Task 1: Review	Talking points			\$346.50	
Ann Verwiel	12/26/21	Task 1: Review	Memo preparation			\$577.50	
Ann Verwiel	12/28/21	Task 1: Review	Memo prep			\$231.00	
Ann Verwiel	12/29/21	Task 1: Review	Memo prep			\$693.00	
Ann Verwiel	12/30/21	Task 1: Review	Memo prep			\$462.00	
Task 1: Review						\$4,389.00	
Professional Fees						\$4,389.00	
TOTAL FEES/EXPENSES				--		\$4,389.00	

